Author Index to Volume 180

Allegrini, P., see D. Vitali 180 (1994) 297
Anfinrud, P.A., see T.A. Jackson 180 (1994) 131

Bala, P., B. Lesyng and J.A. McCammon, Applications of quantum–classical and quantum–stochastic molecular dynamics simulations for proton transfer processes 180 (1994) 271
Ben-Amotz, D., see A.M. Williams 180 (1994) 119
Ben-Avraham, D. and D. Zhong, Diffusion-limited many-body reactions in one dimension and the method of interparticle distribution functions 180 (1994) 329
Benjamin, I., Solvent dynamics following charge transfer at the liquid–liquid interface 180 (1994) 287
Boukheddaden, K., J. Linares, S. Galam and F. Varret, Tunneling transfer in a coupled bistable oscillator pair 180 (1994) 43
Braun, D. and W. Rettig, Kinetic studies of twisted intramolecular charge transfer in highly viscous solvents as a function of pressure and temperature 180 (1994) 231
Brion, C.E., see W.F. Chan 180 (1994) 77

Cao, J., see D.E. Sagnella 180 (1994) 167
Chan, W.F., G. Cooper and C.E. Brion, Discrete and continuum photoabsorption oscillator strengths for the electronic spectrum of nitrous oxide (5.5–203 eV) 180 (1994) 77
Ciccotti, G., see D. Laria 180 (1994) 181
Clément, E., R. Kopelman and L. Sander, The diffusion-limited reaction A+A→0 in the steady state: influence of correlations in the source 180 (1994) 337
Cooper, G., see W.F. Chan 180 (1994) 77

Ferrario, M., see D. Laria 180 (1994) 181
Frenking, G., see Y. Yamaguchi 180 (1994) 55

Galam, S., see K. Boukheddaden 180 (1994) 43
Gaw, J.F., see Y. Yamaguchi 180 (1994) 55
Gitterman, M. and G.H. Weiss, A singular perturbation theory for reaction–diffusion equations 180 (1994) 319
Grigolini, P., see D. Vitali 180 (1994) 297

Hänggi, P., Escape over fluctuating barriers driven by colored noise 180 (1994) 157
Hershkowitz, E., see E. Pollak 180 (1994) 191

Jackson, T.A., M. Lim and P.A. Anfinrud, Complex nonexponential relaxation in myoglobin after photodissociation of MbCO: measurement and analysis from 2 ps to 56 μs 180 (1994) 131
Jiang, Y., see A.M. Williams 180 (1994) 119

Kajii, Y., see Y. Takatori 180 (1994) 99

Kanamaru, N., Rotational effect on radiationless transition. II. Typical intermediate case, pyrazine 180 (1994) 19
Kanamaru, N., Rotational effect on radiationless transition. III. External magnetic-field effect 180 (1994) 37
Kapral, R., see D. Laria 180 (1994) 181
Komatsuzaki, T. and I. Ohmine, Energetics of proton transfer in liquid water. I. Ab initio study for origin of many-body interaction and potential energy surfaces 180 (1994) 239
Kopelman, R., see E. Clément 180 (1994) 337

Laria, D., G. Ciccotti, M. Ferrario and R. Kapral, Activation free energy for proton transfer in solution 180 (1994) 181
Lesyng, B., see P. Bala 180 (1994) 271
Lim, M., see T.A. Jackson 180 (1994) 131
Linares, J., see K. Boukheddaden 180 (1994) 43

McCammon, J.A., see P. Bala 180 (1994) 271
Myers, A.B., Relating absorption, emission, and resonance Raman spectra with electron transfer rates in photoinduced charge transfer systems: promises and pitfalls 180 (1994) 215

Nordio, P.L. and A. Polimeno, Extended Fokker–Planck model for molecular rotations in liquids 180 (1994) 109

Obi, K., see Y. Takatori 180 (1994) 99
Ohmine, I., see T. Komatsuzaki 180 (1994) 239

Pelissier, M., see C. Teichteil 180 (1994) 1
Polimeno, A., see P.L. Nordio 180 (1994) 109
Pollak, E. and E. Hershkowitz, Activated rate processes: a multidimensional Kramers turnover theory 180 (1994) 191

Remington, R.B., see Y. Yamaguchi 180 (1994) 55
Rettig, W., see D. Braun 180 (1994) 231

Sagnella, D.E., J. Cao and G.A. Voth, A semiclassical reactive flux method for the calculation of condensed phase activated rate constants 180 (1994) 167
Sander, L., see E. Clément 180 (1994) 337
Schaefer III, H.F., see Y. Yamaguchi 180 (1994) 55
Shibuya, K., see Y. Takatori 180 (1994) 99
Silvers, S.J., see D.L. Warnaar 180 (1994) 89
Styrcz, S., see Z. Zboiński 180 (1994) 71

Takatori, Y., Y. Kajii, K. Shibuya and K. Obi, Dissociation of highly excited triplet benzophenone into phenyl radicals and carbon monoxide: determination of the reaction quantum yield and the heat of reaction by time-resolved thermal lensing technique 180 (1994) 99
Talkner, P., Finite barrier corrections for the Kramers rate problem in the spatial diffusion regime 180 (1994) 199
Teichteil, C. and M. Pelissier, Relativistic calculations of excited states of molecular iodine 180 (1994) 1

Varret, F., see K. Boukheddaden 180 (1994) 43
Vitali, D., P. Allegrini and P. Grigolini, Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations? 180 (1994) 297
Voth, G.A., see D.E. Sagnella 180 (1994) 167

Wang, J. and P. Wolynes, Survival paths for reaction dynamics in fluctuating environments 180 (1994) 141
Warnaar, D.L. and S.J. Silvers, Zeeman quantum beat spectroscopy of higher rovibrational levels of the V $^1B_2$ state of carbon disulfide 180 (1994) 89
Weiss, G.H., see M. Gitterman 180 (1994) 319
Williams, A.M., Y. Jiang and D. Ben-Amotz, Molecular reorientation dynamics and microscopic friction in liquids 180 (1994) 119
Wolynes, P., see J. Wang 180 (1994) 141

Yamaguchi, Y., R.B. Remington, J.F. Gaw, H.F. Schaefer III and G. Frenking, Canonical orbital energy derivative studies of the C_2H_2 and H_2CO ground state potential energy hypersurfaces 180 (1994) 55

Zboiński, Z. and S. Styrcz, Predimeric pairs as traps for charge carriers in organic solids. Naphthalene and anthracene crystals 180 (1994) 71
Zhong, D., see D. Ben-Avraham 180 (1994) 329

Subject Index to Volume 180

Methods

Theoretical

Classical mechanics
Activated rate processes: a multidimensional Kramers turnover theory, E. Pollak and E. Hershkowitz 180 (1994) 191

Many body and quasiparticle approaches
Relativistic calculations of excited states of molecular iodine, C. Teichteil and M. Pelissier 180 (1994) 1

Coupling schemes and perturbative treatments
Relativistic calculations of excited states of molecular iodine, C. Teichteil and M. Pelissier 180 (1994) 1
Rotational effect on radiationless transition. II. Typical intermediate case, pyrazine, N. Kanamaru 180 (1994) 19
Rotational effect on radiationless transition. III. External magnetic-field effect, N. Kanamaru 180 (1994) 37
Finite barrier corrections for the Kramers rate problem in the spatial diffusion regime, P. Talkner 180 (1994) 199
A singular perturbation theory for reaction–diffusion equations, M. Gitterman and G.H. Weiss 180 (1994) 319

Relativistic quantum mechanics
Relativistic calculations of excited states of molecular iodine, C. Teichteil and M. Pelissier 180 (1994) 1

Transport quantum mechanics
Tunneling transfer in a coupled bistable oscillator pair, K. Boukheddaden, J. Linares, S. Galam and F. Varret 180 (1994) 43

Equilibrium statistical mechanics
Solvent dynamics following charge transfer at the liquid–liquid interface, I. Benjamin 180 (1994) 287

Statistical mechanics of stationary states
Escape over fluctuating barriers driven by colored noise, P. Hänggi 180 (1994) 157
Activated rate processes: a multidimensional Kramers turnover theory, E. Pollak and E. Hershkowitz 180 (1994) 191
Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations?, D. Vitali, P. Allegrini and P. Grigolini 180 (1994) 297
Diffusion-limited many-body reactions in one dimension and the method of interparticle distribution functions, D. Ben-Avraham and D. Zhong 180 (1994) 329

Non-equilibrium thermodynamic and hydrodynamic theories
Extended Fokker–Planck model for molecular rotations in liquids, P.L. Nordio and A. Polimeno 180 (1994) 109
Survival paths for reaction dynamics in fluctuating environments, J. Wang and P. Wolynes 180 (1994) 141
Escape over fluctuating barriers driven by colored noise, P. Hänggi 180 (1994) 157
Finite barrier corrections for the Kramers rate problem in the spatial diffusion regime, P. Talkner 180 (1994) 199
A singular perturbation theory for reaction–diffusion equations, M. Gitterman and G.H. Weiss 180 (1994) 319
Diffusion-limited many-body reactions in one dimension and the method of interparticle distribution functions, D. Ben-Avraham and D. Zhong 180 (1994) 329
The diffusion-limited reaction $A+A\rightarrow 0$ in the steady state: influence of correlations in the source, E. Clément, R. Kopelman and L. Sander 180 (1994) 337

Ab initio schemes for stationary properties
Canonical orbital energy derivative studies of the C_2H_2 and H_2CO ground state potential energy hypersurfaces, Y. Yamaguchi, R.B. Remington, J.F. Gaw, H.F. Schaefer III and G. Frenking 180 (1994) 55
Energetics of proton transfer in liquid water. I. Ab initio study for origin of many-body interaction and potential energy surfaces, T. Komatsuzaki and I. Ohmine 180 (1994) 239

Computational and simulation methods
Predimeric pairs as traps for charge carriers in organic solids. Naphthalene and anthracene crystals, Z. Zboiński and S. Styrcz 180 (1994) 71
A semiclassical reactive flux method for the calculation of condensed phase activated rate constants, D.E. Sagnella, J. Cao and G.A. Voth 180 (1994) 167
Activation free energy for proton transfer in solution, D. Laria, G. Ciccotti, M. Ferrario and R. Kapral 180 (1994) 181
Energetics of proton transfer in liquid water. I. Ab initio study for origin of many-body interaction and potential energy surfaces, T. Komatsuzaki and I. Ohmine 180 (1994) 239
Applications of quantum–classical and quantum–stochastic molecular dynamics simulations for proton transfer processes, P. Bala, B. Lesyng and J.A. McCammon 180 (1994) 271
Solvent dynamics following charge transfer at the liquid–liquid interface, I. Benjamin 180 (1994) 287
Diffusion-limited many-body reactions in one dimension and the method of interparticle distribution functions, D. Ben-Avraham and D. Zhong 180 (1994) 329

Molecular dynamics and scattering theory
Rotational effect on radiationless transition. II. Typical intermediate case, pyrazine, N. Kanamaru 180 (1994) 19
Rotational effect on radiationless transition. III. External magnetic-field effect, N. Kanamaru 180 (1994) 37

Experimental

Raman spectroscopy
Relating absorption, emission, and resonance Raman spectra with electron transfer rates in photoinduced charge transfer systems: promises and pitfalls, A.B. Myers 180 (1994) 215

Visible and UV spectroscopy
Discrete and continuum photoabsorption oscillator strengths for the electronic spectrum of nitrous oxide (5.5–203 eV), W.F. Chan, G. Cooper and C.E. Brion 180 (1994) 77

Fluorescence spectroscopy
Zeeman quantum beat spectroscopy of higher rovibrational levels of the V $^1B_2$ state of carbon disulfide, D.L. Warnaar and S.J. Silvers 180 (1994) 89
Molecular reorientation dynamics and microscopic friction in liquids, A.M. Williams, Y. Jiang and D. Ben-Amotz 180 (1994) 119
Relating absorption, emission, and resonance Raman spectra with electron transfer rates in photoinduced charge transfer systems: promises and pitfalls, A.B. Myers 180 (1994) 215
Kinetic studies of twisted intramolecular charge transfer in highly viscous solvents as a function of pressure and temperature, D. Braun and W. Rettig 180 (1994) 231

Electron impact spectroscopy
Discrete and continuum photoabsorption oscillator strengths for the electronic spectrum of nitrous oxide (5.5–203 eV), W.F. Chan, G. Cooper and C.E. Brion 180 (1994) 77

Laser methods
Dissociation of highly excited triplet benzophenone into phenyl radicals and carbon monoxide: determination of the reaction quantum yield and the heat of reaction by time-resolved thermal lensing technique, Y. Takatori, Y. Kajii, K. Shibuya and K. Obi 180 (1994) 99

Picosecond spectroscopy
Molecular reorientation dynamics and microscopic friction in liquids, A.M. Williams, Y. Jiang and D. Ben-Amotz 180 (1994) 119
Complex nonexponential relaxation in myoglobin after photodissociation of MbCO: measurement and analysis from 2 ps to 56 μs, T.A. Jackson, M. Lim and P.A. Anfinrud 180 (1994) 131

Time-resolved experiments
Zeeman quantum beat spectroscopy of higher rovibrational levels of the V $^1B_2$ state of carbon disulfide, D.L. Warnaar and S.J. Silvers 180 (1994) 89
Dissociation of highly excited triplet benzophenone into phenyl radicals and carbon monoxide: determination of the reaction quantum yield and the heat of reaction by time-resolved thermal lensing technique, Y. Takatori, Y. Kajii, K. Shibuya and K. Obi 180 (1994) 99
Molecular reorientation dynamics and microscopic friction in liquids, A.M. Williams, Y. Jiang and D. Ben-Amotz 180 (1994) 119
Complex nonexponential relaxation in myoglobin after photodissociation of MbCO: measurement and analysis from 2 ps to 56 μs, T.A. Jackson, M. Lim and P.A. Anfinrud 180 (1994) 131
Kinetic studies of twisted intramolecular charge transfer in highly viscous solvents as a function of pressure and temperature, D. Braun and W. Rettig 180 (1994) 231

Objects

Bulk systems

Liquids neat
Molecular reorientation dynamics and microscopic friction in liquids, A.M. Williams, Y. Jiang and D. Ben-Amotz 180 (1994) 119

Liquids mixtures and solutions
Dissociation of highly excited triplet benzophenone into phenyl radicals and carbon monoxide: determination of the reaction quantum yield and the heat of reaction by time-resolved thermal lensing technique, Y. Takatori, Y. Kajii, K. Shibuya and K. Obi 180 (1994) 99
Extended Fokker–Planck model for molecular rotations in liquids, P.L. Nordio and A. Polimeno 180 (1994) 109
A semiclassical reactive flux method for the calculation of condensed phase activated rate constants, D.E. Sagnella, J. Cao and G.A. Voth 180 (1994) 167
Activation free energy for proton transfer in solution, D. Laria, G. Ciccotti, M. Ferrario and R. Kapral 180 (1994) 181
Solvent dynamics following charge transfer at the liquid–liquid interface, I. Benjamin 180 (1994) 287

Crystals
Predimeric pairs as traps for charge carriers in organic solids. Naphthalene and anthracene crystals, Z. Zboiński and S. Styrcz 180 (1994) 71

Glasses
Survival paths for reaction dynamics in fluctuating environments, J. Wang and P. Wolynes 180 (1994) 141

Low-dimensional materials
Diffusion-limited many-body reactions in one dimension and the method of interparticle distribution functions, D. Ben-Avraham and D. Zhong 180 (1994) 329

Dielectrics
Predimeric pairs as traps for charge carriers in organic solids. Naphthalene and anthracene crystals, Z. Zboiński and S. Styrcz 180 (1994) 71

Biological systems
Complex nonexponential relaxation in myoglobin after photodissociation of MbCO: measurement and analysis from 2 ps to 56 μs, T.A. Jackson, M. Lim and P.A. Anfinrud 180 (1994) 131
Survival paths for reaction dynamics in fluctuating environments, J. Wang and P. Wolynes 180 (1994) 141
Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations?, D. Vitali, P. Allegrini and P. Grigolini 180 (1994) 297

Microscopic systems

Molecules (neutral and ionic)
Rotational effect on radiationless transition. II. Typical intermediate case, pyrazine, N. Kanamaru 180 (1994) 19

–diatomic
Relativistic calculations of excited states of molecular iodine, C. Teichteil and M. Pelissier 180 (1994) 1

–small polyatomics
Canonical orbital energy derivative studies of the C_2H_2 and H_2CO ground state potential energy hypersurfaces, Y. Yamaguchi, R.B. Remington, J.F. Gaw, H.F. Schaefer III and G. Frenking 180 (1994) 55

Discrete and continuum photoabsorption oscillator strengths for the electronic spectrum of nitrous oxide (5.5–203 eV), W.F. Chan, G. Cooper and C.E. Brion 180 (1994) 77
Zeeman quantum beat spectroscopy of higher rovibrational levels of the V $^1B_2$ state of carbon disulfide, D.L. Warnaar and S.J. Silvers 180 (1994) 89

–aromatics
Rotational effect on radiationless transition. III. External magnetic-field effect, N. Kanamaru 180 (1994) 37
Extended Fokker–Planck model for molecular rotations in liquids, P.L. Nordio and A. Polimeno 180 (1994) 109
Kinetic studies of twisted intramolecular charge transfer in highly viscous solvents as a function of pressure and temperature, D. Braun and W. Rettig 180 (1994) 231
Energetics of proton transfer in liquid water. I. Ab initio study for origin of many-body interaction and potential energy surfaces, T. Komatsuzaki and I. Ohmine 180 (1994) 239

–polymeric and biological
Complex nonexponential relaxation in myoglobin after photodissociation of MbCO: measurement and analysis from 2 ps to 56 μs, T.A. Jackson, M. Lim and P.A. Anfinrud 180 (1994) 131
Applications of quantum–classical and quantum–stochastic molecular dynamics simulations for proton transfer processes, P. Bala, B. Lesyng and J.A. McCammon 180 (1994) 271

Molecular aggregates

–dimers
Tunneling transfer in a coupled bistable oscillator pair, K. Boukheddaden, J. Linares, S. Galam and F. Varret 180 (1994) 43
Applications of quantum–classical and quantum–stochastic molecular dynamics simulations for proton transfer processes, P. Bala, B. Lesyng and J.A. McCammon 180 (1994) 271
Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations?, D. Vitali, P. Allegrini and P. Grigolini 180 (1994) 297

Quasiparticles (including excitions)
Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations?, D. Vitali, P. Allegrini and P. Grigolini 180 (1994) 297

Defects and impurities
Predimeric pairs as traps for charge carriers in organic solids. Naphthalene and anthracene crystals, Z. Zboiński and S. Styrcz 180 (1994) 71

Phenomena

Molecular structure
Canonical orbital energy derivative studies of the C_2H_2 and H_2CO ground state potential energy hypersurfaces, Y. Yamaguchi, R.B. Remington, J.F. Gaw, H.F. Schaefer III and G. Frenking 180 (1994) 55

Electronic structure and states
Relativistic calculations of excited states of molecular iodine, C. Teichteil and M. Pelissier 180 (1994) 1
Canonical orbital energy derivative studies of the C_2H_2 and H_2CO ground state potential energy hypersurfaces, Y. Yamaguchi, R.B. Remington, J.F. Gaw, H.F. Schaefer III and G. Frenking 180 (1994) 55
Predimeric pairs as traps for charge carriers in organic solids. Naphthalene and anthracene crystals, Z. Zboiński and S. Styrcz 180 (1994) 71

Electric and magnetic properties
Zeeman quantum beat spectroscopy of higher rovibrational levels of the V $^1B_2$ state of carbon disulfide, D.L. Warnaar and S.J. Silvers 180 (1994) 89

Molecular interactions
Energetics of proton transfer in liquid water. I. Ab initio study for origin of many-body interaction and potential energy surfaces, T. Komatsuzaki and I. Ohmine 180 (1994) 239

Spectral bandshapes and intensities
Discrete and continuum photoabsorption oscillator strengths for the electronic spectrum of nitrous oxide (5.5–203 eV), W.F. Chan, G. Cooper and C.E. Brion 180 (1994) 77
Relating absorption, emission, and resonance Raman spectra with electron transfer rates in photoinduced charge transfer systems: promises and pitfalls, A.B. Myers 180 (1994) 215

Coupling of electronic and nuclear motion
Tunneling transfer in a coupled bistable oscillator pair, K. Boukheddaden, J. Linares, S. Galam and F. Varret 180 (1994) 43

Energy transfer processes
Nonlinear quantum mechanical effects: real or artefact of inaccurate approximations?, D. Vitali, P. Allegrini and P. Grigolini 180 (1994) 297

Molecular photophysical processes
Discrete and continuum photoabsorption oscillator strengths for the electronic spectrum of nitrous oxide (5.5–203 eV), W.F. Chan, G. Cooper and C.E. Brion 180 (1994) 77

Intramolecular dynamics
Dissociation of highly excited triplet benzophenone into phenyl radicals and carbon monoxide: determination of the reaction quantum yield and the heat of reaction by time-resolved thermal lensing technique, Y. Takatori, Y. Kajii, K. Shibuya and K. Obi 180 (1994) 99
Complex nonexponential relaxation in myoglobin after photodissociation of MbCO: measurement and analysis from 2 ps to 56 μs, T.A. Jackson, M. Lim and P.A. Anfinrud 180 (1994) 131
Activated rate processes: a multidimensional Kramers turnover theory, E. Pollak and E. Hershkowitz 180 (1994) 191
Kinetic studies of twisted intramolecular charge transfer in highly viscous solvents as a function of pressure and temperature, D. Braun and W. Rettig 180 (1994) 231
Applications of quantum–classical and quantum–stochastic molecular dynamics simulations for proton transfer processes, P. Bala, B. Lesyng and J.A. McCammon 180 (1994) 271

–radiationless transitions
Rotational effect on radiationless transition. II. Typical intermediate case, pyrazine, N. Kanamaru 180 (1994) 19
Rotational effect on radiationless transition. III. External magnetic-field effect, N. Kanamaru 180 (1994) 37

Luminescence spectra, yields and lifetimes
Rotational effect on radiationless transition. II. Typical intermediate case, pyrazine, N. Kanamaru 180 (1994) 19
Rotational effect on radiationless transition. III. External magnetic-field effect, N. Kanamaru 180 (1994) 37

Non-linear responses (including optical)
Escape over fluctuating barriers driven by colored noise, P. Hänggi 180 (1994) 157

Reactions (including dissociation)
Escape over fluctuating barriers driven by colored noise, P. Hänggi 180 (1994) 157
Finite barrier corrections for the Kramers rate problem in the spatial diffusion regime, P. Talkner 180 (1994) 199
A singular perturbation theory for reaction–diffusion equations, M. Gitterman and G.H. Weiss 180 (1994) 319
Diffusion-limited many-body reactions in one dimension and the method of interparticle distribution functions, D. Ben-Avraham and D. Zhong 180 (1994) 329
The diffusion-limited reaction $A+A \rightarrow 0$ in the steady state: influence of correlations in the source, E. Clément, R. Kopelman and L. Sander 180 (1994) 337

–condensed phase
A semiclassical reactive flux method for the calculation of condensed phase activated rate constants, D.E. Sagnella, J. Cao and G.A. Voth 180 (1994) 167
Activation free energy for proton transfer in solution, D. Laria, G. Ciccotti, M. Ferrario and R. Kapral 180 (1994) 181
Activated rate processes: a multidimensional Kramers turnover theory, E. Pollak and E. Hershkowitz 180 (1994) 191
Finite barrier corrections for the Kramers rate problem in the spatial diffusion regime, P. Talkner 180 (1994) 199
Energetics of proton transfer in liquid water. I. Ab initio study for origin of many-body interaction and potential energy surfaces, T. Komatsuzaki and I. Ohmine 180 (1994) 239

–photochemical
Dissociation of highly excited triplet benzophenone into phenyl radicals and carbon monoxide: determination of the reaction quantum yield and the heat of reaction by time-resolved thermal lensing technique, Y. Takatori, Y. Kajii, K. Shibuya and K. Obi 180 (1994) 99

Tunneling
A semiclassical reactive flux method for the calculation of condensed phase activated rate constants, D.E. Sagnella, J. Cao and G.A. Voth 180 (1994) 167

Electron transfer
Tunneling transfer in a coupled bistable oscillator pair, K. Boukheddaden, J. Linares, S. Galam and F. Varret 180 (1994) 43

Extended Fokker–Planck model for molecular rotations in liquids, P.L. Nordio and A. Polimeno 180 (1994) 109
Relating absorption, emission, and resonance Raman spectra with electron transfer rates in photoinduced charge transfer systems: promises and pitfalls, A.B. Myers 180 (1994) 215
Kinetic studies of twisted intramolecular charge transfer in highly viscous solvents as a function of pressure and temperature, D. Braun and W. Rettig 180 (1994) 231
Solvent dynamics following charge transfer at the liquid–liquid interface, I. Benjamin 180 (1994) 287

Molecular motion (including diffusive)
Extended Fokker–Planck model for molecular rotations in liquids, P.L. Nordio and A. Polimeno 180 (1994) 109
Molecular reorientation dynamics and microscopic friction in liquids, A.M. Williams, Y. Jiang and D. Ben-Amotz 180 (1994) 119
A singular perturbation theory for reaction–diffusion equations, M. Gitterman and G.H. Weiss 180 (1994) 319

Fluctuations and noise
Survival paths for reaction dynamics in fluctuating environments, J. Wang and P. Wolynes 180 (1994) 141
Escape over fluctuating barriers driven by colored noise, P. Hänggi 180 (1994) 157
Activated rate processes: a multidimensional Kramers turnover theory, E. Pollak and E. Hershkowitz 180 (1994) 191
Finite barrier corrections for the Kramers rate problem in the spatial diffusion regime, P. Talkner 180 (1994) 199

Collective motion and excitations
Applications of quantum–classical and quantum–stochastic molecular dynamics simulations for proton transfer processes, P. Bala, B. Lesyng and J.A. McCammon 180 (1994) 271